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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/656,564

09/05/2003

Deborah A. Angelo

7860

25859

7590

02/07/2005

WEI TE CHUNG  
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EXAMINER

TERESINSKI, JOHN

ART UNIT

PAPER NUMBER

2858

DATE MAILED: 02/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

**Office Action Summary**

Application No.

10/656,564

Applicant(s)

ANGELO ET AL.

Examiner

John Teresinski

Art Unit

2858

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 05 September 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 9/5/03.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 6-9 and 15-20 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,305,405 to Emmons et al..

Regarding claim 1, Emmons et al. disclose a cable (12), two connectors disposed on opposite ends of the cable (14, 14'), wherein the cable comprises at least one electrical wire for transmitting signals (column 6 lines 45-46) and an optical fiber for transmitting light (22), the connectors terminate the electrical wire within so that the wire can be electrically connected to a terminal in a corresponding receptacle (column 6 lines 51-56), a first of the two connectors defines a passage and terminates a first end of the optical fiber opposite to the passage (column 6 lines 10-11), a second of the two connectors forms an illuminating member thereon and terminates a second end of the optical fiber therein with a predetermined distance left between the illuminating member and the second end of the optical fiber (Fig. 2 elements 15 and 22), when a light beam shines through the passage of the first connector at a first end of the patch cable, the light travels through the optical fiber from first end to a second end thereof, the light exiting from the second end of optical fiber irradiates the illuminating member of the second conductor at a second end of the patch cable, thus the illuminating member luminesces for identification (column 6 lines 10-27).

Regarding claims 2, 3 and 16, Emmons et al. disclose each of the connectors comprises an illuminating member (22) and each illuminating member defined the passage therein (Fig. 2 element 22).

Regarding claim 6, Emmons et al. disclose a collimator/illumination ring (50).

Regarding claim 7, Emmons et al. disclose a ferrule/ring (526) for fixing the optical fiber and a lens for collimating light (600).

Regarding claims 8 and 9, Emmons et al. disclose a transparent housing (column 4 lines 24-27), the illuminator is formed on the outer surface of the housing (column 4 lines 61-68) and the optical fibers fixed in the housing (Fig. 2).

Regarding claim 15, Emmons et al. disclose forming a passage in a first of the two connectors and an illuminating member on a second of the two conductors (22), providing an external (120) light beam shining through the passage of the first connector at a first end of the patch cable, the light traveling through the optical fiber to irradiate the illuminating member of the second connector at a second end of the patch cable, (column 6 lines 10-27) and identifying the illuminated ends of the second end of the patch cable as the corresponding end (column 6 lines 26-27).

Regarding claim 17, Emmons et al. disclose a pair of connectors attached to two opposite ends of the cable, respectively, each of the connectors including a contact electrically connected to the wire, for implementing the transmission signal (column 6 lines 50-52), and one of the connectors including an actuating device (120) which independently initiates an identification symbol, wherein the symbol moves along the transmitting device and is able to be visually identified on the other connector (column 6 lines 10-27).

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Regarding claim 18, Emmons et al. disclose the patch cable with an actuating device having first and second identical connectors (column 4 lines 17-24).

Regarding claims 19 and 20, Emmons et al. disclose a light beam as an identification signal (column 6 lines 10-27), and the transmitting device is an optic fiber (column 5 lines 3-22).

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emmons et al. in view of U.S. Patent No. 5,612,780 to Rickenbach et al..

Regarding claims 4 and 5, Emmons et al. disclose the device as described above. Emmons et al. does not disclose an illuminating member formed by painting or sputtering or made from a material containing chrome. Rickenbach et al. a device for detecting light emission from an optical fiber having a chrome painted light receiving chamber (column 3 lines 15-20). It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a chrome painted surface as taught by Rickenbach et al. for the purpose of preventing loss through the connector.

Claims 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Emmons et al. in view of U.S. Patent No. 5,764,043 to Czosnowski et al..

Regarding claim 10, Emmons et al. disclose the patch cable as described above. Emmons et al. does not disclose a patch panel, a plurality of terminals or a plurality of patch cables. Czosnowski et al. disclose a patch cord assembly including a patch panel (34), a plurality of terminals (38) and a plurality of patch cables (column 8 lines 19-23). It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a patch cable with a patch panel, plurality of terminals and other patch cables as taught by Czosnowski et al. for the purpose of facilitating connections between patch panels.

Regarding claims 11 and 12, see claims 19 and 20 above.

Regarding claim 13, Emmons et al. disclose a collimator/illumination ring (50).

Regarding claim 14, Emmons et al. disclose a transparent housing (column 4 lines 24-27) and the illuminator is formed on the outer surface of the housing (column 4 lines 61-68).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Teresinski whose telephone number is (571) 272-2235. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ST  
JT

February 3, 2005

  
**ANJAN DEB**  
**PRIMARY EXAMINER**